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COUNTY COUNCIL OF THE  
COUNTY OF STIRLING

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TWENTY-THIRD

ANNUAL REPORT

ON

MEDICAL INSPECTION OF  
SCHOOL CHILDREN

BY

T. ADAM, M.A., M.D., D.P.H. (Camb.)

Chief School Medical Officer

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YEAR 1932-33



# County Council of Stirling.

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## MEDICAL INSPECTION STAFF

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### School Medical Officer—

THOMAS ADAM, M.A., M.D., D.P.H. (Camb.).

### Assistant Medical Officers—

JOHN S. FINDLAY, M.B., C.M., D.P.H.

MARGARET T. RUTHERFORD, M.A., M.B., Ch.B.,  
D.P.H.

JOHN RIDDELL, M.B., Ch.B., D.P.H.

ANN G. LEARMONTH, M.B., Ch.B., D.P.H.

### School Nurses—

MARGARET ADAM.

RUTH M. DOUGHTY.

FLORA M'INNES.

MARY DICKSON.

BEATRICE R. DAVIDSON.

MARGARET DICKIE.

### Clerks—

MARGARET NICOL.

PATRICIA ROBERTSON (Dental Clinic).

MARGARET GALLOWAY (Dental Clinic).

### Oculist (part-time)—

JOHN GILCHRIST, M.D., 2 Somerset Place, Charing  
Class, Glasgow, C.3.

### Dentists—

ANDREW P. M. M'QUEEN, L.D.S., County Offices,  
Falkirk.

JOSEPH SHEARMAN, L.D.S., County Buildings, Stirling.

JAMES W. SOMERVILLE, L.D.S., R.C.S. (part-time),  
4 Viewfield Place, Stirling.

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STIRLING:

M'INTYRE & PEARSON, 9 Barnton Street.

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# COUNTY COUNCIL OF STIRLING

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## TWENTY-THIRD ANNUAL REPORT

on

## MEDICAL INSPECTION OF SCHOOL CHILDREN.

1932-33.

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COUNTY BUILDINGS, STIRLING.

The present Report on the Medical Inspection of School Children in Stirlingshire is for the period from 1st August, 1932, to 31st July, 1933.

Fortunately there were no alterations in the Staff throughout the year.

The visual acuity of children of seven years of age was tested in addition to the usual routine age groups.

The number of schools in the County coming under the Scheme of Medical Inspection is 91, the number of children on the Register being 30,105, and the average attendance 27,084.

The following is a note of the number of visits paid to schools for systematic examination in accordance with the scheme of Medical Inspection:—

Dr. Findlay	.....	150
Dr. Rutherford	.....	213
Dr. Riddell	.....	189
Dr. Learmonth	.....	176

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728

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The number of special visits to schools for purposes other than routine inspection was :—

Dr. Findlay .....	31
Dr. Rutherford .....	30
Dr. Riddell .....	69
Dr. Learmonth .....	29
	<hr/>
	159
	<hr/>

DEFECTIVE AND INVALID CHILDREN. — The Special Schools or Classes for Defective Children will be dealt with at a later part of the Report.

DIARY SHEETS. — From the Diary Sheets made out fortnightly by the Assistant Medical Officers, the following table has been prepared showing the number of routine and non-routine examinations made throughout the year, together with the total time occupied, and the average time taken to the examination of each child.

### SUMMARY SHEETS.

Inspector.	Routine Examination.	Non-Routine Examination.	Time Occupied.
			hrs. mins.
Dr. Findlay	1644	989	336 15
Dr. Rutherford	2666	1722	527 15
Dr. Riddell	2092	1982	422 15
Dr. Learmonth	2177	1698	401 30
			<hr/>
Total ... ..	8579	6391	1687 15

Average number of children examined per hour :—8.8.

Average time taken to examination of each child :—6.8 min.

SANITARY CONDITIONS OF SCHOOLS.—At Fintry Public School water-closets were installed during the year, the difficulty of drainage having been overcome.

At Cambusbarron Public School ten water-closets and a urinal are now provided, rendered possible by the installation of a proper drainage system in the village.

At Falkirk High School the lavatories had got out of

repair and were somewhat obsolete. These have been replaced by modern closets.

Fully a year ago a grant was obtained from the Unemployment Grants Committee to help in the work of tar macadamising playgrounds throughout the County, and thus sixty-one playgrounds were enabled to be covered with an impervious surface. They were really the older playgrounds, as the playgrounds for the newer schools were so covered from the very beginning. Such a surface is an inestimable boon to the children, especially during wet weather following a thaw. The Committee is not losing sight of this matter, so that the good work will go on in connection with those schools still to have their playgrounds properly treated.

At Falkirk Central School in Meeks Road three new classrooms were erected with adequate lavatory accommodation for boys and girls respectively.

At two of the large schools in the County (Riverside, Stirling, and Falkirk Technical) baths were installed throughout the year with, in each case, a beautiful swimming pond. These are of the most up-to-date type, and include arrangements for keeping the water in a continuously pure condition. Although the provision of such baths entails much expense, the enormous benefit to the children who are in the fortunate position to be able to use them must be remembered.

SCHOOL CLOSURE.—It was not found necessary throughout the year to close a school or even a part on account of infectious disease.

FIRST-AID APPLIANCES FOR USE IN SCHOOLS.—A supply of these appliances is kept at the County Buildings, and served out to Head Teachers on request. These serve a very useful purpose, as dressings of this kind for minor accidents are continuously in demand.

ORGANISATION AND ADMINISTRATION.—Full details of the Scheme of School Medical Inspection and how the various staffs are co-ordinated have been given in former reports. Under the new regime the ideal has been kept in view of the unification of the various branches in the Public Health Staff acting as they now are under the Public Health Committee of the County.

ATTENDANCE OF PARENTS AT MEDICAL INSPECTION. — The percentage of parents at the medical inspection of

the children was 35. In my former report the percentage was 32.2, which was the highest on record up to that time. At the beginning of School Medical Inspection the difficulty was to get the parents interested, so that the percentage attending was very small. Now a great part of the time of the medical inspectors is occupied by useful talks with the parents about their children.

The total numbers of children examined at the various age groups were :—

5 year old boys	...	...	...	1405
5 year old girls	...	...	...	1371
9 year old boys	...	...	...	1507
9 year old girls	...	...	...	1450
13 year old boys	...	...	...	1341
13 year old girls	...	...	...	1291
16 year old boys	...	...	...	129
16 year old girls	...	...	...	85
Total				8579
Special Cases, number examined				6391
Total number of children examined...				14970

Last year the total routine cases numbered 8254 as against 8579 this year. The special cases examined last year numbered 5423, as against 6391 this year, the total number of children examined this year being 1300 more than last year. A large proportion of the special cases is made up of the seven year age group, specially examined with regard to eyesight.

Number of Children examined.	Number of Notices sent.	
Routine Inspection ... 8579	1087	12.7%
Special Cases, examined for defects 6391	560	
Total .....14970	1647	

In connection with the 8579 children examined in Routine Inspection, 1087 notices were sent to the parents regarding some defect requiring attention, while 560 similar notices were issued in connection with the 6391 special cases.



## AMELIORATION OF DEFECTS.

The following three tables show what has been accomplished in the way of amelioration with regard respectively to (a) Defective Vision, (b) Affections other than Defective Vision, and (c) Verminous Conditions. The results are given in these tables as formerly for each Parish, showing the number who have received attention either at the hands of the oculist, medical attendant, or otherwise. These cases require a great deal of individual attention on the part of the nurses, and many of the cases require repeated visits to the homes before the desired results are obtained.

## AMELIORATION TABLE—EXCLUDING DEFECTIVE VISION.

DISTRICT.	TONSILS.		ADENOIDS.		HEART.	EARS.		VARIOUS.		No. of children reported to Nurses to Nurses.	No. of defects reported to Nurses.	No. of visits paid by Nurses.
	Treated.	Promised to get Treatment	Treated.	Promised to get Treatment		Treated.	Promised to get Treatment	Treated.	Promised to get Treatment			
Airth ...	9	15	2	9	...	...	...	11	...	37	46	58
Baldernock	...	1	...	...	...	...	...	...	1	2	2	4
Balfon ...	...	7	...	4	...	2	1	1	1	10	16	15
Buchanan	...	1	...	...	...	...	...	...	...	1	1	1
Campsie ...	1	18	...	8	...	9	5	9	14	40	64	57
Denny (Burgh)	9	13	4	12	...	2	...	50	...	78	90	155
Denny (Landward)	2	7	...	5	...	12	1	12	4	24	43	45
Dunipace ...	...	3	...	...	...	...	...	1	...	4	4	6
Drymen ...	...	2	...	1	...	...	...	...	...	2	3	2
Falkirk (Burgh)	...	136	38	56	17	51	13	137	46	451	647	531
Falkirk (Landward)	3	32	2	12	5	12	4	36	8	74	114	108
Fintry ...	...	1	...	...	...	...	...	...	...	1	1	1
Grangemouth (Burgh)	66	44	41	21	10	16	8	92	15	222	313	228
Grangemouth (Landward)	46	43	19	27	5	4	2	58	11	153	214	178
Gargunnoch	...	...	...	...	...	...	...	...	...	...	...	...
Killlearn ...	...	...	...	...	...	1	...	1	...	1	2	1
Kilsyth ...	12	25	6	7	...	20	4	42	11	89	127	175
Kippen	...	1	...	...	...	...	...	5	...	6	6	14
Larbert ...	25	87	15	34	10	6	2	141	17	206	337	280
Logie ...	1	3	...	...	...	...	...	4	...	8	8	19
Muiravonside	26	19	8	11	2	7	2	20	2	67	97	75
St. Ninians	15	26	7	4	...	10	6	37	...	100	105	163
Stirling ...	25	26	10	9	2	6	7	80	...	112	165	225
Slamannan	...	14	4	2	3	...	2	34	...	47	59	73
Strathblane	...	...	...	...	...	...	...	...	...	...	...	...
Total	241	524	156	222	51	158	57	771	139	1735	2404	2404

## AMELIORATION TABLE—DEFECTIVE VISION.

DISTRICT.	No. of Children notified by School Medical Inspectors	No. of Children waiting visit of Oculist.	No. of Children whose parents refused treatment or had left district.	No. of Children treated by own Oculist.	No. of Children for whom glasses were prescribed.	No. of Children otherwise treated.	No. of Children who failed to attend Clinic.	No. of Visits paid by Nurses
Airth, ...	24	1	3	...	18	2	...	47
Baldernock, ...	1	...	...	...	...	1	...	2
Balfroun, ..	7	7	...	...	...	...	...	7
Buchanan, ...	6	2	...	...	...	...	...	10
Campsie, ...	32	...	3	...	17	11	1	63
Denny (Burgh) ...	47	1	7	1	30	5	3	94
Denny (Landward) ...	22	...	...	...	19	3	...	42
Dunipace, ...	...	...	...	...	...	...	...	...
Drymen, ...	2	2	...	...	...	...	...	...
Falkirk (Burgh), ...	536	124	23	22	288	68	11	956
Falkirk (Landward),...	86	...	4	9	48	21	4	191
Fintry, ...	...	...	...	...	...	...	...	...
Grangemouth (Burgh), ...	169	46	3	6	79	26	9	292
Grangemouth (Landward), ...	120	5	3	4	73	29	6	246
Gargunnoch, ...	...	...	...	...	...	...	...	...
Killearn, ...	...	...	1	4	...	...	...	...
Kilsyth, ...	99	...	...	...	70	23	1	199
Kippen, ...	5	...	...	...	4	...	1	8
Larbert, ...	161	1	6	3	96	37	10	435
Logie, ...	14	...	4	1	8	1	...	27
Muiravonside, ...	103	...	4	2	61	34	2	209
St. Ninians, ...	123	8	10	5	72	21	7	212
Stirling, ...	240	5	47	30	122	23	13	447
Slamannan, ...	25	...	...	1	19	4	1	71
Strathblane, ...	1	...	...	...	1	...	...	2
Total, ..	1823	202	119	88	1027	310	69	356

## AMELIORATION TABLE—VERMINOUS CHILDREN.

District.	No. of Children reported as having Nits.	No. of Children reported as being Verminous.	No. of Visits.	No. Cleansed.	No. Improved
Airth ... ..	12	2	42	8	6
Baldernock ... ..	...	...	...	...	...
Balfron ... ..	...	...	...	...	...
Buchanan ... ..	...	...	...	...	...
Campsie ... ..	...	1	2	...	1
Denny (Burgh) ..	25	8	99	30	3
Denny (Landward)...	...	...	...	...	...
Dunipace ... ..	4	...	8	2	2
Drymen ... ..	...	...	...	...	...
Falkirk (Burgh) ...	45	37	162	23	54
Falkirk (Landward)...	1	2	9	1	2
Fintry... ..	...	...	...	...	...
Gargunnoch ... ..	1	...	4	1	...
Grangemouth (Burgh)	44	10	73	52	2
Grangemouth(L'ward)	34	12	71	36	3
Killearn ... ..	...	...	...	...	...
Kilsyth ... ..	6	24	94	11	19
Kippen ... ..	9	4	35	3	10
Larbert ... ..	53	10	120	51	2
Logie ... ..	10	3	42	9	4
Muiravonside ... ..	...	2	4	1	1
Slamannan ... ..	11	10	57	7	5
St. Ninians ... ..	149	47	485	101	95
Stirling ... ..	167	87	594	133	121
Strathblane ... ..	...	...	...	...	...
	571	259	1901	474	330

The same arrangements for dealing with cases of defective vision have been continued throughout the year, Dr. Gilchrist, Eye Specialist from Glasgow, doing by far the greater proportion of the work. Three of the Assistants, however, Dr. Rutherford, Dr. Riddell and Dr. Learmonth give a part of their time also to this work. The two chief centres are at Falkirk and Stirling. In Stirling the accommodation is excellent for both dental and eye treatment, part of the former Royal Infirmary buildings having been converted to this use. The new accommodation, consisting of two rooms at the County Offices in Falkirk, which were properly fitted for both dental and eye work, has proved to be extremely useful.

As before, Kilsyth Academy and Lennoxton Public School serve as subsidiary centres for their respective surrounding districts, but in the rest of the Western District, which is comparatively sparsely populated, Dr. Gilchrist has to make a round of visits to the individual schools as and when required.

## CLOTHING.

No. Examined.		No. having insufficient Clothing.	No. having ragged Clothing.	No. having dirty Clothing.
Boys	4382	3	2	2
Girls	4197	4	3	5
Total Routine	8579	7	5	7
Percentages		.08	.06	.08
Special Cases		2	—	—

The foregoing table shows that of the 8579 children examined on routine inspection 7 were found to have insufficient clothing, 5 with clothing which was ragged, and 7 with clothing which was dirty, a total of 19, as compared with 12 last year. The number of special cases which had to be dealt with was only 2, as compared with 8 last year. These very favourable figures are no doubt due in a good many cases to the efforts of the Education Committee and the Public Assistance Committee in providing clothing in necessitous cases.

## FOOTGEAR.

No. Examined.		No. with unsatisfactory footgear.
Boys	4382	4
Girls	4197	4
Total Routine	8579	8
Percentages		.09
Special Cases		—

The number found with unsatisfactory footgear on routine inspection was only 8, as compared with 9 last year, this favourable result being probably due also to the necessitous cases receiving the attention of the Education and Public Assistance Committees.

## AVERAGE HEIGHT AND WEIGHT.

## HEIGHT IN INCHES.

Averages Ages.		5 6-12	8 8-12	13 3-12	15 9-12
Boys	Stirlingshire ... ..	42.3	48.9	57.3	64.3
	1931-32	42.1	48.7	57.1	64.4
	Standard ... ..	41.03	47.5	56.4	62.8
Averages Ages.		5 5-12	8 7-12	13 4-12	15 10-12
Girls	Stirlingshire ... ..	41.8	48.6	58.4	62.4
	1931-32	41.8	48.6	58.1	61.9
	Standard ... ..	40.4	46.8	56.5	61.2

## WEIGHT IN POUNDS (AVOIRDUPOIS).

Averages Ages.		5 6-12	8 8-12	13 3-12	15 9-12
Boys	Stirlingshire ... ..	41.2	56.3	84.8	119.2
	1931-32	41.3	56.2	84.3	118.1
	Standard ... ..	39.9	55.8	82.2	106.7
Averages Ages.		5 5-12	8 7-12	13 4-12	15 10-12
Girls	Stirlingshire ... ..	39.8	54.1	88.2	110.9
	1931-32	39.5	54.5	88.1	112.4
	Standard ... ..	39.0	52.3	85.4	108.5

The above tables show the average height and weight of the children examined at the various age groups in routine inspection throughout the year under review. These may be compared with the figures given for 1931-32, and also with the standard figures for the whole country. It will be noticed that both with regard to height and weight for the boys and girls respectively the figures for the year differ only fractionally from those of the year 1931-32, and that practically in every case the Stirlingshire figures for this year (both with regard to height and weight) are higher than are the standard figures for the country as a whole. These standard figures are based on the report of the Royal Commission on Physical Training (Scotland), Tables XVI. and XVII. of which show the average stature (without shoes) at all ages of different classes of the population of Great Britain, and Tables XVIII. and XIX., of which show the average weight (including clothes) at all ages of different classes of the population of Great Britain.

## CLEANLINESS OF HEAD AND BODY.

Number Examined.	Head			Body	
	Dirty	Nits	Vermin	Dirty	Vermin
Boys ... .. 4382	2	31	1	6	2
Girls ... .. 4197	1	683	22	8	1
Total Routine ... 8579	3	714	23	14	3
Percentages ... ..	.03	8.3	.27	.16	.03
Special Cases ... ..	6	242	48	8	2

From year to year remark has been made of the steady improvement with regard to cleanliness of head and body. Just as before, the figures this year show that the difficulty lies largely with the girls, especially as regards nits and vermin of the head. This year the figures are very much the same as the previous year, and unfortunately the special cases found with nits and vermin of the head show an increase. If the hair of all schoolgirls were kept as closely cropped as in the case of boys there is no reason whatever why their heads should not be equally free from vermin.

## CONDITION OF SKIN.

With regard to the condition of the skin, here again there is an improvement from last year, ringworm showing the greatest decrease. It is to be noted, however, that a few more cases of scabies came under notice. This disease used to be much more prevalent during and immediately after the war. The special cases are usually brought to the notice of the medical assistants by the teachers, who are keenly alive to the importance of having such ailments cured.

## CONDITION OF SKIN.

No. Examined	HEAD			BODY			
	Ringworm	Impetigo	Others	Ringworm	Impetigo	Scabies	Others
Boys ... .. 4382	1	4	8	2	23	12	34
Girls ... .. 4197	—	5	5	1	17	8	46
Total Routine ... .. 8579	1	9	13	3	40	20	80
Percentages ... ..	.01	.10	.15	.03	.47	.23	.93
Special Cases ... ..	3	21	2	2	49	24	23

## NUTRITION.

Number Examined		Above Average	Average	Below Average	Very Bad
Boys ... ..	4382	2609	2224	89	...
Girls ... ..	4197	1733	2332	132	...
Total Routine ... ..	8579	3802	4556	221	...
Percentages ... ..	...	44.3	53.1	2.6	...
Special Cases ... ..	...	...	...	10	...



It will be noticed that 97.4 per cent. of those examined in routine inspection were of average or above average nutrition. This is practically the same as last year, with this difference that the numbers above average are somewhat less, while the numbers of average nutrition are correspondingly increased. The percentage of children below average nutrition is much the same as last year, the difference being only fractional.

### TEETH.

Number Examined		Sound	1-4 decayed	5 or more decayed	Oral Sepsis
Boys ... ..	4382	1231	2196	955	...
Girls ... ..	4197	1437	1889	871	...
Total Routine ... ..	8579	2668	4085	1826	...
Percentages ... ..		31.1	47.6	21.3	...
Special Cases ... ..		...	...	5	...

The figures indicating the dental condition of the children in routine inspection has for several years remained fairly constant. It will be noticed that almost a third of the children have sound teeth, the boys being rather less than a third, whereas the girls with sound teeth number more than a third. The number with five or more decayed teeth is about one per cent. more than last year.

### DENTAL TREATMENT.

The Dental Staff was unchanged throughout the year, Mr. Shearman being engaged mostly in the Central and Western portions of the County, and Mr. M'Queen in the Eastern portion, while Mr. Somerville, the part-time dentist, is engaged among the children of Stirling Burgh. The following three tables show the work which has been accomplished by the three dentists, Mr. Somerville, Mr. M'Queen, and Mr. Shearman, respectively:—

ANNUAL REPORT BY Mr J. SOMERVILLE, School Dentist, from August, 1932, to June, 1933.

SCHOOL.	No. of Children Inspected.	No. of Children Requiring Treatment.	No. of Children Treated.	No. of Visits.	Extractions.		No. of Fillings.		Dressings.	Scalings.
					Temp.	Perm.	Temp.	Perm.		
Allan's ...	448	326	66	83	142	20	1	31	5	6
Craigs ...	276	216	49	61	115	10	2	42	...	4
Episcopal ...	198	153	39	40	49	24	1	16	2	2
High ...	403	257	38	50	8	15	...	52	5	5
Primary ...	233	159	25	31	21	4	1	25	...	6
Riverside ...	848	607	90	129	101	50	...	95	2	6
St Mary's R.C.	489	376	116	128	177	50	3	34	4	4
Territorial ...	381	297	92	106	173	25	5	49	6	2
	3276	2391	515	628	736	198	13	314	24	35

School.	No. of Children Inspected.	No. of Children Requiring Treatment.	No. of Children Accepting Treatment.	Per-centage Accept-ing.	Extractions.		Fillings.		Other Treatment.		
					Temp.	Perm.	Temp.	Perm.	Sealings.	Dressings.	Other Treatment.
Avonbridge ... ..	158	138	64	46	77	32	2	43	...	...	...
Bothkennar ... ..	125	106	46	43	55	26	4	24	...	5	...
California-Blackbraes	157	146	97	66	119	53	3	39	...	...	...
Comely Park ... ..	661	614	300	47	414	158	15	192	2	23	...
Drumbowie ... ..	337	281	164	58	201	96	7	101	2	...	...
Falkirk High ... ..	863	695	156	22	116	87	...	169	3	1	...
Falkirk Technical	677	522	120	23	11	165	...	107	3	3	...
Larbert Central	732	611	214	35	254	88	7	117	3	14	...
Larbert Village	389	345	168	48	242	101	4	121	...	9	...
Larbert Special	42	39	19	48	4	27	...	10	1	4	...
Limerigg ... ..	80	74	58	78	92	21	5	29	...	4	...
Maddiston ... ..	333	290	139	47	224	65	14	58	3	4	...
Muiravonside ... ..	106	83	28	33	37	21	1	17	1	5	...
Polmont ... ..	127	111	30	27	45	10	...	8	...	...	...
Redding H.G. ... ..	306	247	72	29	15	76	...	65	1	...	...
Redding Village	142	127	34	26	58	11	...	8	...	...	...
Shieldhill ... ..	224	199	108	54	152	71	...	53	...	...	...
Slamannan ... ..	441	384	224	58	275	147	8	142	...	5	...
Torwood ... ..	14	12	3	25	9	...	...	2	...	...	...
Wallacestone ... ..	319	282	107	37	188	36	1	42	...	...	...
Non-Routines ... ..	...	...	90	...	140	69	...	48	...	...	...
	6233	5306	2241	40	2728	1360	71	1395	19	73	...

## ANNUAL REPORT BY Mr. J. SHEARMAN, L.D.S.,

SCHOOL.	No. of Children Inspected.	No. of Children Requiring Treatment.	No. of Children Treated.	No. of Visits.	Percentage Accepting Treatment.
Airth ... ..	254	133	51	51	38
Arnprior ... ..	19	11	...	...	...
Auchentroig ... ..	16	7	...	...	...
Balfron ... ..	249	123	39	39	31
Baldernock ... ..	46	26	21	21	80
Bannockburn ... ..	474	292	57	57	19
Bannockburn R.C. ... ..	201	76	35	35	46
Banton ... ..	72	32	12	14	37
Banknock ... ..	79	47	32	32	68
Bridge of Allan ... ..	233	120	52	59	43
Buchanan ... ..	52	30	8	8	26
Buchlyvie ... ..	55	22	7	7	31
Cambusbarron ... ..	157	91	32	32	35
Campsie Glen ... ..	16	7	2	2	28
Causewayhead ... ..	110	42	15	15	35
Castlecary ... ..	31	13	7	7	53
Carronshore... ..	308	170	131	131	77
Carron ... ..	404	236	71	76	30
Cowie ... ..	361	154	23	23	14
Cowie R.C. ... ..	199	75	22	22	29
Denny High ... ..	738	443	168	208	37
Denny R.C. ... ..	235	122	49	49	40
Dennyloanhead ... ..	195	99	36	36	36
Dundas ... ..	452	273	108	113	39
Dunipace ... ..	154	98	38	38	38
Drymen ... ..	43	18	7	7	38
Fallin ... ..	339	144	42	43	29
Fintry ... ..	24	15	2	2	13
Gargunnoch ... ..	53	26	8	8	30
Grange ... ..	471	293	154	177	52
Infant ... ..	285	165	83	85	50
Grangemouth R.C. ... ..	114	59	34	34	57
Grangemouth High ... ..	215	130	24	27	18
Killearn ... ..	51	26	22	22	84
Kilsyth Academy ... ..	1217	657	229	256	35
Kilsyth R.C. ... ..	322	152	50	50	32
Kippen ... ..	94	45	25	25	56
Lennoxtown ... ..	273	160	57	57	36
Lennoxtown R.C. ... ..	253	122	70	72	57
Longcroft ... ..	294	171	57	58	33
Muirland ... ..	14	7	6	6	86
Plean ... ..	302	147	59	59	40
Sauchie ... ..	24	13	4	4	31
South Alloa ... ..	48	27	7	7	26
St. Ninians ... ..	337	183	48	49	26
Strathblane ... ..	39	24	11	11	46
Torrance ... ..	95	48	22	22	46
Zetland ... ..	246	128	75	76	59
Dental Clinic... ..	...	...	33	54	...
Child Welfare... ..	...	...	5	5	...
T.B. Cases ... ..	...	...	1	1	...
	10263	5502	2151	2292	39

School Dentist, 8/9/32—3/7/33.

Number of Extractions.		Number of Fillings.		Dressings.	Scalings.
Temp.	Perm.	Temp.	Perm.		
93	38	...	14	...	3
...	...	...	...	...	...
...	...	...	...	...	...
38	37	...	12	...	13
19	15	...	8	...	4
170	26	...	10	...	11
57	19	...	10	...	10
26	13	...	12	...	2
67	23	...	6	1	4
88	29	...	38	...	20
17	5	...	3	...	4
13	5	...	1	1	...
68	19	...	4	...	9
10	2	...	...	...	...
37	3	...	10	1	4
29	3	...	...	...	...
257	104	...	27	...	22
140	53	1	20	1	11
52	18	...	2	...	...
51	16	...	4	2	1
268	153	...	99	7	45
127	41	...	5	...	2
106	25	...	4	...	5
179	81	...	48	2	22
72	40	...	4	...	6
15	3	...	10	...	3
105	27	...	9	...	7
4	3	...	...	...	1
16	7	...	1	...	...
171	95	...	91	2	53
316	1	2	2	...	...
101	18	2	3	...	3
7	24	...	23	...	6
37	12	1	3	...	7
516	147	...	117	3	47
84	41	...	3	...	4
39	20	...	10	...	6
107	48	...	32	...	13
144	42	2	12	...	8
88	51	...	28	...	12
12	5	...	3	...	1
124	38	...	17	...	15
15	3	...	...	...	1
27	1	...	...	...	...
196	39	...	24	...	16
24	8	...	1	...	4
45	10	...	9	...	3
174	42	1	11	...	7
52	9	...	50	9	5
12	...	...	...	...	...
...	8	...	...	...	...
4415	1470	9	800	29	420

From the table setting forth the results of Mr. Somerville's work it will be seen that of the 2391 children requiring treatment 515 were actually treated, the details of the treatment being given in the subsequent figures as to whether they were extractions, fillings, etc. It will be noticed also that the 515 children treated necessitated visits on their part to the number of 628, which means that some children had to come to the dentist more than once during their treatment. The percentage treated of those requiring treatment was only 22. In Stirling Burgh the percentage treated by the School Dentist has always been low, as the majority of the parents on having the dental defects pointed out by the School Dentist take their children to their own private dentists to have the treatment carried out.

WHOLE-TIME DENTISTS' WORK. — This year Mr. M'Queen inspected 6233 children, and the number requiring treatment was 5306, the number accepting treatment being 2241, or 40 per cent., practically the same as last year.

In Mr. Shearman's area, while more children were actually inspected, the number of children requiring treatment was only slightly more than in Mr. M'Queen's area, and the percentage who were actually treated was 39.1.

If the columns showing the percentages for the various schools are examined it will be seen that the percentages vary very largely between the various schools from as low as 22 per cent. at Falkirk High School to as high as 78 per cent. at Limerigg. That again is explained by the pupils at Falkirk High School being taken to their private dentists for treatment, whereas in such places as Limerigg, private dental treatment is not readily available.

In Mr. Shearman's area the percentage of children treated varies from 86 per cent. at Muirlands School to 13 per cent. at Fintry School and 14 per cent. at Cowie Public School.

Quite a number of children have to be seen, of course, more than once during treatment.

## NOSE AND THROAT.

Of the 8579 children examined in the routine age groups, 1894 were reported as having nasal catarrh,

that is about 2 per cent. more than last year. Those with nasal obstruction numbered 1.1 per cent., practically the same as the previous year. The figures referring to enlarged tonsils show a decrease of 2 per cent. as compared with the figures for the previous year, and there is also a decrease of one per cent. in the figures relating to adenoids.

The figures with regard to these diseases have been showing a marked improvement from year to year. In last report I attributed this to the close co-operation between the County Public Health Department and the Nose and Throat Departments of the Falkirk and Stirling Royal Infirmaries respectively. The work during the year was satisfactorily continued at these Institutions. The number of school children dealt with at the Falkirk Royal Infirmary was 499, and at Stirling Royal Infirmary 220, a total of 719, as compared with 846 the previous year.

Stirling County Local Authorities with the two up-to-date General Hospitals at Falkirk and Stirling respectively are in a very favourable position to co-operate with these voluntary institutions, and the Stirling County Health Department is generally recognised as the pioneer in this system of co-operation.



## NOSE AND THROAT.

No. Examined	Nasal Catarrh	Nasal Obstruction	Other Diseases	TONSILS		ADENOIDS		Other Diseases
				Slightly Enlarged	Markedly Enlarged	Probably Present	Present	
Boys ... .. 4382	1009	60	22	460	84	174	74	1
Girls ... .. 4197	785	32	8	454	75	133	67	1
Total Routine ... .. 8579	1894	92	30	914	159	307	141	2
Percentages ... ..	22.1	1.1	.35	10.7	1.9	3.6	1.6	.02
Special Cases ... ..	9	31	8	231	21	27	81	10

## LYMPHATIC GLANDS.

No. Examined	SUBMAXILLARY			CERVICAL		
	Palpably Enlarged	Markedly Enlarged	Suppurating	Palpably Enlarged	Markedly Enlarged	Suppurating
Boys ... .. 4382	321	...	...	1304	6	...
Girls ... .. 4197	297	...	...	1148	1	...
Total Routine ... .. 8579	618	...	...	2452	7	1
Percentages ... ..	7.2	...	...	28.6	.08	.01
Special Cases ... ..	1	...	...	9	...	...
						2

Cicatrices

Suppurating

Markedly Enlarged

Palpably Enlarged

Cicatrices

Suppurating

Markedly Enlarged

Palpably Enlarged

Cicatrices

Suppurating

Markedly Enlarged

Palpably Enlarged



## LYMPHATIC GLANDS.

The figures in the foregoing table show that 7.2 per cent. of the children examined in routine inspection had submaxillary glands slightly enlarged and none markedly enlarged, while the percentage of those with cervical glands palpably enlarged was 28.6. The figures correspond very closely with those for the previous year. It was remarked in the previous report that while these figures are somewhat high there has been shown to be a gradual decrease of the percentage so affected. Very often the enlargement is due to transitory causes, and may only continue for a comparatively short time. If the inflammatory process continues, however, the danger is that the glands become a focus for the development of tuberculous infection. It will be noticed that only 7 had cervical glands markedly enlarged and only one had such glands suppurating.

## EXTERNAL EYE DISEASE.

No. Examined		Blepha- ritis	Conjunc- tivitis	Corneal Opacity	Strabis- mus	Other Diseases
Boys ... ..	4382	61	11	6	87	15
Girls ... ..	4197	77	15	8	101	20
Total						
Routine	8579	138	26	14	188	35
Percentages ... ..		1.6	.30	.16	2.2	.41
Special Cases ...		44	15	5	53	16

The figures with regard to external eye diseases are very much the same as in the previous year, the percentage with regard to blepharitis, conjunctivitis and corneal opacity being relatively low. The percentage with regard to strabismus (squint) is 2.2., as compared with 2.5 the previous year. Children with squint are always brought before the School Oculist at the earliest opportunity, so as to have the defect remedied as soon as possible.

There is an arrangement between the County Child Welfare Committee and the County Education Committee by which children under school age with eye defects, such as squint, are dealt with by the School Oculist.

## VISUAL ACUITY.

No. Examined	Good Vision	Fair Vision	Bad Vision	One Eye Defective
Boys ... .. 4382	3716	282	277	107
Percentages ... ..	84.8	6.4	6.3	2.4
Girls ... .. 4197	3412	384	313	88
Percentages ... ..	81.3	9.1	7.5	2.1
Total Routine... .. 8579	7128	666	590	195
Percentages ... ..	83.1	7.8	6.8	2.3
Special Cases ... ..	...	135	639	61

The general figures with regard to visual acuity are very much the same as last year, the percentages showing only fractional differences. It will be noticed, however, that the figures for the boys are considerably better than those for the girls, as many as 3.5 per cent. more boys than girls having good vision. This feature has been brought out every year since medical inspection of school children began, showing that the average visual acuity of boys is better than that of girls.

## EARS.

No. Examined	Otorrhœa	Wax	Other Diseases
Boys... .. 4382	55	50	5
Girls... .. 4197	48	39	13
Total Routine ... .. 8579	103	89	18
Percentages ... ..	1.2	1.03	.21
Special Cases ... ..	76	5	11

The percentage of children found on routine examination with otorrhœa is 1.2, as compared with 1.29 the previous year. There is therefore a small decrease in the number of cases with this ailment. Last year there was shown to be a similar small decrease. Otorrhœa is very often the result of a severe attack of scarlet fever or measles, and it may also arise from such conditions as adenoids and enlarged tonsils, and the fact that these two latter conditions are now dealt with so promptly may account for the less frequent occurrence of otorrhœa.

The number of children with wax in their ears was 89, as compared with 161 the previous year. This condition can, of course, be very easily remedied by having the wax removed, best done by means of a syringe and suitable lotion.

### HEARING.

No. Examined	Good	Slightly Deaf	Markedly Deaf
Boys... .. 4382	4287	80	15
Girls... .. 4197	4126	55	16
Total Routine... .. 8579	8413	135	31
Percentages ... ..	98.07	1.57	.36
Special Cases ... ..	...	74	4

The figures with regard to hearing from year to year appear to work out at approximately the same. Those with good hearing numbered 98.07 per cent., slightly deaf 1.57 per cent., and markedly deaf .36 per cent., as compared with 97.87 per cent, 1.73 per cent., and .38 per cent. respectively the previous year. The figures with regard to children found markedly deaf have shown a marked decline during the five immediately past years, being 97, 45, 37, 32 and now 31 respectively. These figures are very instructive, and it is hardly to be doubted that the chief factor in the improvement is the increased attention which is being given to adenoids and enlarged tonsils at the two Infirmaries through the action of the County Council. It means that the prevalence of marked deafness is now only a third of what it was in Stirlingshire school children five years ago. This is bound to have a most important effect from the point of view of the children's education and of their success in after life.

### SPEECH.

No. Examined	Defective Articulation	Stammering
Boys ... .. 4382	50	17
Girls ... .. 4197	26	3
Total Routine ... .. 8579	76	20
Percentages ... ..	.89	.23
Special Cases ... ..	6	2

The figures here again show what is brought out from year to year, namely, that boys are much more liable to speech defects than are girls. In defective articulation the percentage of girls affected is approximately a half of the percentage of boys affected. With regard to stammering only three girls were found to be affected as compared with 17 boys.

### MENTAL CONDITION.

No. Examined		Dull or Backward	Mentally Defective
Boys ... ..	4382	29	1
Girls ... ..	4197	16	1
Total Routine... ..	8597	45	2
Percentages ... ..		.52	.02
Special Cases ... ..		15	1

Out of 8579 children examined in routine inspection, 45 were dull or backward; 14 of these, however, were known before, and were being taught in the Special Classes, so that only 31 such new cases were found during the routine inspection. Of mentally defective children there were only two new cases found. The reason why so few mentally defective children are found in routine inspection in the ordinary schools is that such are now to a very large extent grouped in special classes and taught by themselves. In the two previous reports it was mentioned that there was a proposal to build a large central school to serve the children in the eastern portion of the County. The fee for this school has been acquired and plans prepared. These have been receiving much consideration with a view to having a school as efficient as possible at the lowest cost.

### HEART AND CIRCULATION.

No. Examined		Organic Disease		Functional Disease	Anæmia
		Congenital	Acquired		
Boys ... ..	4382	5	195	246	67
Girls ... ..	4197	4	213	247	95
Total Routine... ..	8579	9	408	493	162
Percentages ... ..		.10	4.8	5.7	1.9
Special Cases... ..		5	60	16	36

Organic heart disease is sub-divided, as before, into two groups, congenital and acquired. Nine children, which is the same number as last year, were found with congenital disease. The percentage of children with acquired disease of the heart is 4.8, as compared with 4.5 the previous year. This condition usually results from an attack of scarlet fever or some rheumatic condition. It may be well to note again that rheumatic affections vary much in intensity, so that while they may be very severe and unmistakable they may also manifest themselves as slight growing pains to which the parents pay very little attention. Too often what may pass as mild affections unless properly treated may have more or less disastrous results on the heart, causing a very serious handicap throughout life. Functional disease of the heart, on the other hand, is generally of a passing nature, and may disappear altogether with proper tonic treatment.

### LUNGS.

No. Examined		Bron- chial Catarrh	Chronic Bron- chitis	Tuber- culosis	Tuber- culosis Suspected	Other Diseases
Boys ... ..	4382	255	3	1	12	10
Girls ... ..	4197	242	6	2	9	8
Total Routine	8579	497	9	3	21	18
Percentages ... ..		5.8	.10	.03	.24	.21
Special Cases ... ..		15	2	4	5	24

5.8 per cent. of the children examined had bronchial catarrh, mostly due to common colds which, as a rule, readily yield to proper treatment. Nine children were found with chronic bronchitis and three with tuberculosis, the numbers in these two cases being identical with those found the previous year. In 21 cases, however, tuberculosis was suspected, but could not be definitely diagnosed. These cases were kept under observation. Eighteen children were found with other diseases of the chest, such as asthma.

## NERVOUS SYSTEM.

No. Examined.	Epilepsy	Chorea	Infantile Paralysis	Other Nervous Affections
Boys ... .. 4382	2	4	11	29
Girls ... .. 4197	3	2	10	34
Total Routine ... 8579	5	6	21	63
Percentages... ..	.06	.07	.24	.72
Special Cases ... ..	...	17	2	13

In routine inspection 5 children were found with epilepsy, as compared with 3 last year, 6 with chorea (St. Vitus' Dance), as compared with 5 the previous year, 21 with infantile paralysis, and 63 with other nervous affections. The figures here are slightly increased as compared with those for last year.

## TUBERCULOSIS (NON-PULMONARY).

No. Examined	Gland-ular	Bones and Joints	Abdom-inal	Skin
Boys ... .. 4382	7	6	6	1
Girls ... .. 4197	10	1	7	1
Total Routine ... .. 8579	17	7	13	2
Percentages ... ..	.19	.08	.15	.03
Special Cases ... ..	6	2	6	2

In the case of children found in routine inspection suffering from non-pulmonary tuberculosis, the figures under the four headings are respectively 17, 7, 13 and 2, a total of 39, as compared with the previous year's total of 29. For some years now quite a large number of children suffering from non-pulmonary tuberculosis continue to be treated with excellent results in the County Hospitals at Camelon and Bannockburn respectively, either as indoor patients or outdoor, the latter usually by means of ultra-violet radiation, each of the hospitals having an ultra-violet installation.

The arrangement has been continued by which other cases requiring surgical attention have been treated with good results in the surgical wards at Stirling and Falkirk Royal Infirmaries.



## RICKETS.

No. Examined		Slight	Marked
Boys ... ..	4382	24	...
Girls ... ..	4197	26	2
Total Routine... ..	8579	50	2
Percentages ... ..		.58	.03
Special Cases ... ..		3	...

This year the number reported as suffering from rickets in routine inspection is 52, as compared with 44 the previous year.

## DEFORMITIES.

No. Examined		Congenital	Acquired (Non-Rhachitic)
Boys ... ..	4382	16	57
Girls ... ..	4197	10	34
Total Routine... ..	8579	26	91
Percentages ... ..		.30	1.1
Special Cases ... ..		2	3

In routine inspection 26 children were found with some congenital deformity, and in addition 91 were found with some acquired deformity not due to rickets. The figures for congenital deformity the previous year were 9 and for acquired deformity 87.

## INFECTIOUS DISEASES.

No. Examined	Whooping Cough	Measles	Mumps	Scarlet Fever	Diph- theria	Chicken- pox
Boys ... 4382	7	...	1	...	...	3
Girls ... 4197	6	...	2	1	1	3
Total						
Routine 8579	13	...	3	1	1	6
Percentages ... ..	.15	...	.03	.01	.01	.07
Special Cases .	1	1	4	...	...	5

In routine inspection 13 children were found suffering from whooping cough, 3 from mumps, one from scarlet fever, one from diphtheria, and 6 from chickenpox, a total of 24 children actually in attendance at school and suffering from these diseases, and that in spite of the fact that teachers nowadays are on the outlook for symptoms of infection and do not hesitate to send suspicious cases home and to notify me. Last year the number found with infectious diseases was only 9. During the year under review there has been an unfortunate increase in the incidence of infectious diseases, notably whooping cough and chickenpox. Some of these cases were brought to the notice of the School Medical Inspectors by the teachers, and were excluded from school.

## OTHER DISEASES AND DEFECTS.

No. Examined	Hernia	Enuresis	Enlarged Thyroid	Others
Boys ... .. 4382	21	10	6	53
Girls ... .. 4197	7	40	35	70
Total				
Routine ... 8579	28	50	41	123
Percentages ... ..	.33	.58	.48	1.4
Special Cases ... ..	3	9	6	90

Among the children in routine inspection 28 were found with hernia, as compared with 29 last year; 50 were found with enuresis, as compared with 40 the previous year; and 41 with enlarged thyroid, as compared



with 27 last year. It will be noticed that enlarged thyroid among the routine inspections was almost six times as prevalent among girls as among boys.

## SPECIAL SCHOOLS OR CLASSES.

**DEFECTIVE OR INVALID CHILDREN.**—Reports from my Department on defective and invalid children form an important part of the business at the monthly meetings of the School Medical Committee. Mentally defective children come under two heads, educable and non-educable, the educable forming by far the larger class and being dealt with by the Education Committee. The non-educable are reported to the Public Assistance Committee for their attention. Both of these Committees are Committees of the County Council.

The defective children are divided into mentally defective and physically defective, and Special Classes have been in existence for some years at Stirling and Larbert, the children being mostly of the mentally defective group. The class at Larbert is by far the larger, children being conveyed to it from as far distant as Kilsyth. As stated in a former report, a feu has now been acquired and plans prepared for a Special School for defective children, the site being within Falkirk Burgh.

In my previous report I said that so far nothing had been done with regard to children suffering from myopia (short sight). We are in the same position still, but a list of these children is being kept and provision will be made for them. These are really physically and not mentally defective, many of them being indeed highly intelligent.

Dr. Learmonth reports as follows regarding the Special Class at Larbert Village School:—

“During the past session I have visited the Special Class at Larbert School on several occasions, and as well as examining the children individually, I have also seen the classes as a whole at work.

“The children attending this class comprise both physical and mental defectives. There are now 62 children on the roll, but of these only 55 are actually attending school. The other seven have left, but their names still figure on the register. This is due to the fact that most of them were under 16 years of age, and although, in all cases, permission, on various grounds, had been granted for them to leave, no authority had

been given to the Headmaster to take their names off the register. Till this is remedied, no more children can be admitted, as 60 is the regulation number; but if these names are removed there will be several vacancies available for suitable children. Of these 55 pupils, 11 are physical defectives, and 43 mental defectives.

“ Miss M’Innes teaches the physical defectives, and the progress these children make, in spite of obvious difficulties, reflects great credit on their teacher. At present there are only eleven in this class, and these numbers could easily be increased without any resulting loss to the children.

“ During this last session the divisions of the mental defectives have been slightly re-arranged. The boys and girls are now taught separately, each division being in charge of a probationer.

“ The very low grade and ineducables—eleven in number—form one separate division, and are in charge of Miss Glegg. In my last report I stressed the inadvisability of having ineducables in the special class—admission to an institution being the only solution to the problem of the training of these children.

“ One of the children, who is at present in the class for physical defectives owing to a congenital heart condition, is also of a very low mentality, and on testing her by the Binet tests I found her to be ineducable, and suggested her removal to an institution.

“ The girls are taught cooking, sewing and handwork, and the standard in all these subjects is high, and great interest is taken in the work by the children. Unfortunately the boys have nothing to take the place of the above subjects, and it is a pity that no provision can be made for woodwork, carpentry or gardening. Facilities for a certain amount of physical instruction, e.g., in games, such as cricket or football, would be of great benefit to the boys. Meanwhile their handwork consists of simple toy-making, rug-making, and knitting. I saw samples of the work done during the session, and many were of specially fine workmanship.

“ Although Miss Stewart does not now, as a rule, take part in the actual teaching of the children, she nevertheless takes a very real interest in the class, and in the children individually.

“ The children derive considerable benefit, both mental and physical, from their inclusion in such a special class.”

Of the Special Class at Craigs School, Stirling, Dr. Riddell writes:—

“ Since the date of last report five children have left this class and four have been admitted. Of the five leavers one (V. R.) was admitted to Larbert Institution, while two others (J. M'F. and H. T.) were certified as only fit for this Institution. Three of the four new admissions came from Stirling Burgh and one from Lanarkshire.

“ E. H., a girl, is deaf, and this no doubt accounts for her retardation to some extent.

“ J. S., the youngest girl in the class, was admitted partly by way of an experiment. She was decidedly backward in her previous school, and was losing ground steadily. Other members of her family were in the Special Class. Her I.Q. was 76, and it was thought that possibly given individual tuition in a Special Class she would be able to regain some of the lost ground. I am pleased to say that this has actually occurred. Her I.Q. is now 88, and although her knowledge is still much less than that of normal children of her age, she is progressing rapidly, and it is just possible that she may be able to return to and succeed in an ordinary class in the course of next year.

“ R. L. has now been submitted to an Intelligence Test with results as shown. His hearing is very much improved, and his speech is also getting clearer.

“ T. G. is now developing criminal tendencies, and will probably have to be certified and admitted to an institution.

Intelligence Quotients as found by the Binet-Simon Tests.

Pupil	Date of Birth	Date of Admission	Intelligence Quotient				
			Admission	May, 1930	June, 1931	June, 1932	June, 1933.
W. K.	2/ 7/19	17/4/28	66	77	70	67	66
J. G.	23/ 8/19	25/8/30	50	...	65	62	...
R. C.	1/ 6/21	6/1/31	60	...	76	79	...
T. G.	11/ 2/23	6/1/31	51	...	64	77	71
J. H.	22/12/23	11/1/32	64	...	...	...	68
F. S.	23/ 5/24	7/3/32	71	...	...	...	...
R. L.	17/ 3/23	5/4/32	...	...	...	...	62
J. C.	5/ 2/25	10/6/32	71	...	...	...	78
J. L.	22/11/19	7/9/32	...	...	...	...	61
W. S.	10/ 5/22	10/1/33	66	...	...	...	...
E. H.	16/11/23	30/8/32	52	...	...	...	...
J. S.	11/ 2/25	10/1/33	76	...	...	...	88

" In November, 1932, I examined, by means of the Binet-Simon Tests the pupils who were sent to Riverside School as 'unqualifiable.' Of 35 boys and 25 girls, 11 boys and 12 girls were found to be so backward as to be classed mentally defective, and I suggested that these be taught as such in a combined class by a specially trained teacher, while the others, with greater individual attention, would probably be fit for an ordinary class at a later date. At the New Year 18 boys and 4 girls from the latter group were moved into higher classes, and subsequently put forward for the qualifying examination, which 13 of them passed. The retarded group was not given combined tuition by a special teacher, but two small classes were formed under the guidance of ordinary teachers, who paid special attention to handwork.

" In the coming session it is proposed to put all the pupils who were advanced into a higher class at the New Year into a slow second year technical class, irrespective of whether they passed the qualifying examination or not, while the other group is put into a backward first year technical class. Practically all these pupils will of course leave school during the course of the session on attaining the age of 14 years.

" At the commencement of the new session approximately 50 more children are being admitted to the school as 'unqualifiables,' and in all probability a similar proportion to last year will be seriously mentally retarded. For dealing with these I would like to repeat the suggestion made last year, that a special class be formed with a teacher fully qualified in mental defective work. Not only would this be more beneficial for the pupils, but it would also be more satisfactory for their teachers. I would also again point out that the Headmasters in the Stirling area might make more use of the special facilities provided for dealing with retarded children in the Craigs School with a view to reducing the number of unqualifiable pupils.

" At the present time there are eight children in Kippen School, four children in Arnprior School, and three children in Buchlyvie School who have been certified as unfit to benefit from instruction in an ordinary class. As most of these are in the Junior Division, and have therefore several years of school life before them, I would suggest that a special class be formed for them. This could be held either at Arnprior or Buchlyvie, where there is vacant accommodation in the school, and to which the children could easily travel by 'bus.'"

## ARRANGEMENTS FOR PHYSICAL EDUCATION AND PERSONAL HYGIENE.

The Medical Inspectors keep in close touch with the routine work of the Physical Instructors.

Of this branch of work, Dr. Findlay writes:—

“ This year I have been able to devote more time to the inspection of the physical instruction given in the various schools in my district, and I am glad to be able to report that the work done reaches the same high standard as in former years. The pupils are instructed in the usual exercises, e.g., leg, arm and trunk exercises, jumping, climbing, vaulting and running. Games, such as football, basket ball and hockey are also played, and dancing is also taught. All exercises are performed with promptness, smartness and facility. They are varied, and so arranged as to be suitable for girls and boys at different ages. The dancing includes country and folk dances. At Kilsyth Academy various country dances, including the Cumberland Reel, were very well done. At Denny High School Spanish, Scandinavian, and other dances were well and gracefully carried out. A pleasing item which I happened to see in the course of a visit to Longcroft School was a minuet performed by boys and girls of an average age of 6½ years. It was exceedingly well and beautifully performed by those very young children. It is a great pleasure to watch the pupils at their varied physical instruction, and to note the care and conscientious manner in which the instructors carry out their work. Undoubtedly the children enjoy the exercises and enter into them with zest; and there is also no doubt as to the beneficial effect on their health and well-being. A general tonic effect is produced, and all the muscles of the body are kept supple and strengthened. The physique of the children and their mental alertness is much improved. The games played induce agility and confidence, and encourage team work and a good school spirit. All exercises are graded according to the physical fitness of the pupil, some requiring to be excused physical training altogether. As before, the Physical Instructors are to be very heartily congratulated on their work.”

Dr. Rutherford reports as follows:—

“ I had much pleasure in paying a visit to the swimming pond at Falkirk Technical School where a class of small boys was disporting itself in the water. Swimming lessons are compulsory, except in cases that



are excused on medical grounds. The boys appeared to be thoroughly at home in the water—diving, swimming (various strokes), and floating. Mr Francis is to be congratulated on the result of his first session's work in the Technical School.

“ I saw classes of first year boys and girls during gymnastic lessons. The girls presented a smart appearance and carried out their work in an alert manner. They seemed to enjoy their physical instruction period exceedingly, and I carried away a very good impression of their work.

“ The boys also were enthusiastic, but one or two had not rubber shoes, and they were rather handicapped in their movements on that account, especially where running was involved. It is difficult to enforce the wearing of rubber shoes FOR DRILL ONLY in these times of unemployment.

“ There is no falling off in the high standard of physical instruction in Falkirk High School under Miss Macdougall and Mr Miller. Both of these teachers had new exercises to show me, and the girls performed some graceful dances and took pleasure in them. Mr Miller has now encouraged even the first year boys to dress in strips and singlets for gymnastics, and is to be congratulated on his achievement. The older boys carried through some strenuous work with great credit, and the younger boys and girls were also a credit to their instructors.

“ It was with great regret that I said good-bye to Mr Miller as gymnastic teacher in Falkirk High School. He retires at the end of this session, and up to the very last there has been no diminution in his energy and keenness in his work. It must be a great satisfaction to him to know that there is only one word in the summing up his work as physical instructor, viz., ‘ excellent.’

“ At Stirling High School the physical instruction under Miss Jarvis is carried on in the usual efficient manner as heretofore, and there is little to add to past reports. The girls have almost universally adopted the new gymnastic costume which was introduced last year, consisting of blouse and shorts. This allows of greater freedom of movement, and defects in posture are more easily seen by the instructress.

“ Remedial work is carried on as usual, and the special cases for postural defects and for modified exercises are medically examined three times yearly.

“ Exercises given are varied, and full use is made of the apparatus supplied. Skipping rope exercises were a new feature in this year’s work.”

In Dr. Riddell’s report, he states that :—

“ At the Stirling High School I inspected the fourth and fifth year boys. Their work was of the usual high standard, and the eagerness displayed was a tribute to their instructor, Mr Murray. While the greater part of the exercises consisted of specially chosen games there was a judicious selection of the older fashioned exercises of the drill type. I was glad to see this, as these exercises under the modern system of physical instruction are tending to be neglected, and there is no doubt that they develop a type of smartness not cultivated by games alone.

“ At Riverside School I was especially interested in inspecting a class of ‘unqualifiable’ girls. Despite the unflinching endeavours of Miss Symington and the earnest attempts of the girls, they were quite unable to reach the standard of other classes, but the benefit and pleasure accruing to the children were most marked. In simple dances especially was their pleasure very obvious. The display given by other pupils, of exercises and dancing, bore excellent testimony to Miss Symington’s enthusiasm and capabilities.

“ Since the date of my last report the new Swimming Baths have been opened at Riverside School, and all the scholars now have their weekly plunge. Under the supervision of Mr. Carruthers a very high standard is being set, and the indications are that this is going to be one of the biggest steps forward taken for many years in the realm of medical inspection and treatment. The additional facilities given for close and continued supervision of the health and cleanliness of the children should lead to a marked all-round improvement.

“ In the course of my last report I spoke about the lack of proper facilities for open-air physical instruction at Riverside School. Now that the new baths are opened, this difficulty could be overcome in an admirable manner. Surrounding the baths is an area of ground, which, if covered with a thin layer of earth and sown with grass seed, would make an excellent sports playground. I would most strongly advocate that this should be done, as accidents still continue to occur in the playground at present being used owing to the rough and uneven nature of the surface.”



The following is Dr. Learmonth's report :—

“ I have attended the classes for physical instruction held in various schools in my district, viz. : — Larbert Central, Redding Public, Grangemouth High and Grange.

“ At Larbert Central School the physical instruction is now under the supervision of Miss Russell, the able successor of Miss Melville, who was transferred to the Falkirk Technical School at the beginning of the session. I saw classes of both boys and girls taking part in routine exercises, dancing and games, all of which reached a very creditable standard. The folk dancing was particularly pleasing — the footwork and sense of rhythm being very good. The girls play netball regularly, and the few practices which I saw showed them to be well grounded in the theory of the game. The school is now fortunate in having its own playing field, where the boys play football and cricket and the girls hockey. This is a great asset to any school, and it is a pity that more do not enjoy the same advantage.

“ Redding Public School has now no regular physical instructress, and each class has to have physical instruction from the ordinary class teacher. This, on the whole, is admirably undertaken by the staff, but it is understandable that the children do not receive the same training as is given by a specialist in that particular branch of work. In spite of this drawback, I saw some very good work performed, and the various teachers are to be congratulated on the results of their efforts.

“ Grangemouth High School and the advanced division of Grange School are still the fortunate possessors of Miss Melville as physical instructress. I was present at several classes, and was impressed by the all-round high standard of merit achieved.

“ After the exercise of much patience on Miss Melville's part, she has succeeded in getting all the girls to wear gymnastic tunics, which, as well as being the most suitable garb, greatly enhances the smart appearance of the class.

“ Teacher and pupils alike show great keenness, and the latter do her great credit by their quickness to respond to words of command, their alertness and their very real ability in both ordinary routine exercises and apparatus work.

“ Here again folk dancing plays a large part in the curriculum, and I saw several dances being performed

in a spirited and graceful manner. Country dancing in the schools is greatly to be advocated, as it is the only opportunity a great many of the children have to learn the first principles of dancing.

“ At Grangemouth High School netball is played by boys as well as girls, and I saw teams of each at play. This game provides an excellent physical training—a fact that has been realised in most of the schools—demanding as it does quickness of eye and foot, the exercising of many different muscles, and promoting the team spirit.

“ Cricket and football are also played by the boys and hockey by the girls.

“ I should like to repeat what I said in last year's report concerning the advisability of having a male instructor for the older boys.

“ The advanced division of the Grange School go over to the High School for their physical instruction, and the juniors have it at their own school from their class teachers, who give them simple exercises, games and dancing.

“ In all the schools attention is paid to delicate children, care being taken to exclude from drill all those medically unfit, and modified drill being given to others.”

## NURSES' WORK.

In our Scheme of Medical Inspection and Treatment the Nurses perform a very responsible part in carrying out the follow-up work. The following table shows the very large number of children who are referred to the Nurses by the School Medical Inspectors, and whose parents are to be visited in the homes. No fewer than 7484 visits were made by the Nurses, the number of children whose names were submitted to the Nurses for attention being 4109, and the conditions reported 5145, so that some of the children showed more than one defect. Again quite a large number of the cases required more than one visit before the desired result was obtained. The visits paid to the home number fully 600 more than last year, and the whole table bears testimony to the large amount of School Medical Inspection work which is done by the Nurses.

THOMAS ADAM,  
Chief School Medical Officer.

TABULAR STATEMENT OF NURSES' FOLLOW-UP WORK, 1932-33.

	Number of Children Reported	Number of Children Awaiting Visits	Number of Visits Paid	Conditions Reported	Number of Cases of Nose, Throat, Ear, and Mouth	Number of Cases of Dirt and Vermis	Various Defects and Diseases
Ordinary							
(a) Routine Work .....	2283	78	3922	2997	1313	830	1047
(b) Eye Work .....	1826	201	3562	2148	...	...	...
	4109	279	7484	5145	1313	830	1047

TABLE I.—ANALYSIS OF THE RESULT

## BOYS.

CONDITIONS FOUND	5 Age-Group		9 Age-Group	
	No. of Chil- dren	Ratio per cent.	No. of Chil- dren	Ratio per cent.
Number Examined .....	1405	...	1507	...
*Poorly Nourished .....	27	1.92	40	2.65
Verminous Head .....	...	...	1	.06
Dirty Body .....	...	...	3	.19
Carious Teeth { 1-4.....	613	43.62	815	54.08
*5 and over ....	546	38.86	310	20.57
*Mouth Breathing .....	60	4.27	60	3.9
*Enlarged Tonsils .....	236	16.79	159	10.55
*Adenoids .....	41	2.91	22	1.45
*Markedly Enlarged Glands .....	5	.35	1	.06
*External Eye Disease .....	71	5.05	62	4.11
*Defective Vision { One Eye ....	Not	...	51	3.38
Both Eyes....	Examined	...	124	8.22
*Ear Disease .....	33	2.34	38	2.52
*Defective Hearing .....	6	.42	40	2.65
*Defective Speech .....	32	2.27	17	1.12
*Mentally Defective .....	3	.21	14	.92
*Abnormal Condition of Heart ...	112	7.97	158	10.84
*Abnormal Condition of Lungs ...	167	11.88	74	4.91
*Chorea .....	...	...	3	.19
*Other Nervous Diseases .....	12	.85	18	1.19
*Tuberculosis { Pulmonary .....	...	...	...	...
Other Forms ....	9	.64	5	.33
*Rickets .....	13	.92	4	.25
*Deformities .....	23	1.63	23	1.52
*Skin Diseases .....	44	3.13	19	1.26
*Infectious Diseases .....	10	.71	...	...
*Anæmia .....	21	1.55	25	1.65
*All Other Diseases or Defects...	40	2.84	34	2.2
Unvaccinated Children .....	677	48.18	662	43.93
Mothers Employed Away .....	13	.92	18	1.19
Children Employed .....	...	...	5	.33
Clothing—Not Satisfactory .....	...	...	7	.46
Footgear—Not Satisfactory .....	1	.07	3	.19
Parents Present .....	862	61.35	509	33.03
Consumption in Family .....	2	.14	13	.86
Already under Medical Attention	13	.92	12	.79
No. of Defective Children (i.e., with Conditions marked thus*)	895	63.7	799	52.3

## OF ROUTINE MEDICAL INSPECTION, 1932-33.

## BOYS.

13 Age-Group		16 Age-Group		Total Combined Ages		Ratio per cent. for 1931-1932.
No. of Children	Ratio per cent.	No. of Children	Ratio per cent.	No. of Children	Ratio per cent.	
1341	...	129	...	4382	...	...
22	1.49	...	...	89	2.03	2.2
...	.22	...	...	1	.02	.04
3	.22	...	...	6	.13	.07
715	53.31	53	41.08	2196	50.57	46.0
87	6.48	12	9.3	955	21.79	21.3
50	3.72	...	...	170	3.89	3.1
142	10.58	7	5.42	544	12.41	15.1
11	.82	...	...	74	1.68	1.7
...	...	...	...	6	.13	.26
44	3.28	3	2.32	180	4.1	4.3
49	3.65	7	5.42	107	2.44	2.3
140	10.4	13	10.8	277	6.32	6.5
38	2.84	1	.77	110	2.51	3.8
45	3.35	4	3.13	95	2.16	2.1
16	1.19	2	1.5	67	1.53	1.5
13	.96	...	...	30	.68	.31
156	11.63	20	15.5	446	10.17	11.4
37	2.75	2	1.5	280	.63	6.5
1	.07	...	...	4	.09	.02
10	.7	2	1.5	42	.95	.72
1	.07	...	...	1	.02	.02
5	.37	1	.77	20	.45	.4
7	.52	...	...	24	.5	.72
23	1.71	4	3.13	73	1.66	1.4
21	1.55	...	...	84	1.91	2.7
1	.07	...	...	11	.25	.12
21	1.55	...	...	67	1.55	1.6
14	1.04	2	1.55	90	2.05	2.7
590	43.9	36	29.9	1965	45.11	44.9
24	1.78	3	2.32	58	1.3	1.4
143	10.66	4	3.13	152	3.48	3.5
...	...	...	...	7	.15	.14
...	...	...	...	4.	.09	.12
70	5.2	6	4.65	1447	33.17	31.8
16	1.19	3	2.32	31	.77	.53
5	.37	...	...	30	.68	.48
647	47.5	58	44.92	2399	55.02	58.1

TABLE II.—ANALYSIS OF THE RESULTS OF  
GIRLS.

CONDITIONS FOUND.	5 Age-Group		9 Age-Group	
	No. of Chil- dren	Ratio per cent.	No. of Chil- dren	Ratio per cent.
Number Examined .....	1371	...	1450	...
*Poorly Nourished .....	54	3.93	50	3.4
Verminous Head .....	10	.72	10	.69
Dirty Body .....	1	.07	4	.27
Carious Teeth { 1-4 .....	600	43.76	813	56.1
{ *5 and over....	491	35.81	292	20.1
*Mouth Breathing .....	45	3.28	37	2.6
*Enlarged Tonsils .....	203	14.8	152	10.4
*Adenoids .....	38	2.71	20	1.4
*Markedly Enlarged Glands .....	1	.07	...	...
*External Eye Disease .....	75	5.47	80	5.5
*Defective Vision { One Eye .....	Not Examined		35	2.4
{ Both Eyes ...			150	10.3
*Ear Disease .....	39	2.84	36	2.5
*Defective Hearing .....	9	.65	27	1.9
*Defective Speech .....	16	1.21	7	.48
*Mentally Defective .....	3	.21	6	.41
*Abnormal Condition of Heart ...	101	7.3	152	10.4
*Abnormal Condition of Lungs ...	165	12.02	77	5.3
*Chorea .....	...	...	1	.07
*Other Nervous Diseases .....	19	1.4	16	1.1
*Tuberculosis { Pulmonary .....	...	...	1	.07
{ Other Forms ...	8	.58	6	.41
*Rickets .....	12	.87	9	.62
*Deformities .....	9	.65	13	.89
*Skin Diseases .....	35	2.5	25	1.7
*Infectious Diseases .....	9	.65	3	.21
*Anæmia .....	26	1.8	41	2.8
*All other Diseases or Defects ...	57	4.2	41	2.8
Unvaccinated Children .....	612	44.6	620	42.8
Mothers Employed Away .....	9	.65	29	2.0
Children Employed .....	...	...	...	...
Clothing—Not Satisfactory .....	2	.14	10	.69
Footgear—Not Satisfactory .....	1	.07	3	.21
Parents Present .....	862	62.9	598	41.2
Consumption in Family .....	10	.72	10	.69
Already under Medical Attention	15	1.1	3	.21
No. of Defective Children (i.e., with conditions marked thus*)..	863	62.9	783	54.0

## ROUTINE MEDICAL INSPECTION, 1932-33.

## GIRLS.

13 Age-Group		16 Age-Group		Total Com- bined Ages		Ratio per cent. for 1931- 1932.
No. of Chil- dren	Ratio per cent.	No. of Chil- dren	Ratio per cent.	No. of Chil- dren	Ratio per cent.	
1291	...	85	...	4197	...	...
28	2.2	...	...	132	3.1	2.6
2	.15	...	...	22	.52	.41
3	.23	...	...	8	.19	.19
448	33.9	28	32.9	1889	45.01	47.6
73	5.6	15	17.6	871	20.7	19.3
25	1.9	...	...	107	2.5	2.6
169	13.1	5	5.9	529	12.6	14.8
9	.69	...	...	67	1.6	1.1
...	...	...	...	1	.02	.09
63	4.9	3	3.5	221	5.3	5.3
50	3.9	3	3.5	88	2.1	2.1
153	11.9	10	11.8	313	7.5	7.9
23	1.8	2	2.4	100	.23	2.8
34	2.6	1	1.2	7	.16	1.1
6	.46	...	...	29	.69	.46
8	.62	...	...	17	.40	.17
201	15.6	10	11.8	464	11.1	10.4
23	1.8	...	...	265	.3	5.7
1	.08	...	...	2	.05	.09
11	.85	1	1.2	47	1.1	.7
1	.08	...	...	2	.05	.04
5	.39	...	...	19	.45	.29
4	.31	3	3.5	28	.66	.3
19	1.5	3	3.5	44	1.04	.95
20	1.5	2	2.4	82	1.9	2.4
1	.08	...	...	13	.31	.09
26	2.01	2	2.4	95	2.3	1.8
50	3.9	4	4.7	152	3.6	3.3
548	42.4	19	22.4	1799	42.8	39.4
21	1.6	2	2.4	61	1.5	1.7
24	1.8	...	...	24	.57	.56
...	...	...	...	12	.28	.14
...	...	...	...	4	.09	.09
98	7.6	1	1.2	1559	37.1	32.7
11	.85	...	...	31	.74	.85
4	.31	...	...	22	.52	.4
658	50.9	39	45.9	2343	55.8	56.1



TABLE III.—ANALYSIS OF THE RESULTS OF ROUTINE  
MEDICAL INSPECTION, 1932-33.

TOTAL COMBINED AGES AND SEXES.

CONDITIONS FOUND	No. of Children	Ratio per cent.	Ratio per cent. for 1931-32
Number Examined .....	8579	...	...
*Poorly Nourished .....	221	2.5	2.4
Vermineous Head .....	23	.27	.23
Dirty Body .....	14	.16	.13
Carious Teeth { 1-4 .....	4085	47.6	48.1
{ *5 and over....	1826	21.3	20.5
*Mouth Breathing .....	277	3.2	2.9
*Enlarged Tonsils .....	1073	12.5	14.9
*Adenoids .....	141	1.6	1.8
*Markedly Enlarged Glands .....	7	.08	.18
*External Eye Disease .....	401	4.7	4.8
*Defective Vision { One Eye .....	195	2.3	2.2
{ Both Eyes ...	590	6.9	7.2
*Ear Disease .....	210	2.4	3.3
*Defective Hearing .....	166	1.9	2.1
*Defective Speech .....	96	1.1	.99
*Mentally Defective .....	47	.55	.24
*Abnormal Condition of Heart ...	910	10.6	10.95
*Abnormal Condition of Lungs ...	545	6.3	6.1
*Chorea .....	6	.07	.06
*Other Nervous Diseases .....	89	1.03	.71
*Tuberculosis { Pulmonary .....	3	.03	.03
{ Other Forms ...	39	.45	.35
*Rickets .....	52	.60	.53
*Deformities .....	117	1.4	1.2
*Skin Diseases .....	166	1.9	2.5
*Infectious Diseases .....	24	.28	.1
*Anæmia .....	162	1.8	1.7
*All Other Diseases or Defects ...	242	2.8	2.95
Unvaccinated Children .....	3764	43.9	42.2
Mothers Employed Away .....	119	1.4	1.5
Children Employed .....	176	2.1	2.1
Clothing—Not Satisfactory .....	19	.22	.14
Footgear—Not Satisfactory .....	8	.09	.1
Parents Present .....	3006	35.03	32.2
Consumption in Family .....	65	.75	.69
Already under Medical Attention	52	.60	.48
No. of Defective Children (i.e., with Conditions marked thus*)..	4742	55.3	57.1

TABLE IV.—ANALYSIS OF THE RESULTS OF NON-  
ROUTINE MEDICAL INSPECTION, 1932-33.

CONDITIONS FOUND	No. of CHILDREN
<hr/>	
Number Examined ... ..	6391
Numbered Entered on Card ... ..	2105
*Poorly Nourished ... ..	10
Verminous Head ... ..	48
Dirty or Verminous Body ... ..	10
*Carious Teeth (5 or over) ... ..	5
*Mouth Breathing ... ..	10
*Enlarged Tonsils ... ..	252
*Tonsilitis ... ..	—
*Tonsilitis ... ..	81
*Enlarged Glands ... ..	—
*Other Defects of Nose and Throat ... ..	58
*External Eye Disease ... ..	133
*Defective Vision (One Eye) ... ..	61
.. .. (Both Eyes) ... ..	639
*Ear Disease ... ..	92
*Defective Hearing ... ..	78
*Defective Speech ... ..	8
*Mentally Defective ... ..	16
*Abnormal Condition of Heart ... ..	81
*Abnormal Condition of Lungs ... ..	46
*Chorea ... ..	17
*Other Nervous Diseases... ..	15
*Tuberculous { Pulmonary ... ..	4
{ Other Forms ... ..	16
*Rickets... ..	3
*Deformities ... ..	5
*Skin Diseases ... ..	124
*Infectious Diseases ... ..	11
*Anæmia... ..	36
*General Debility... ..	24
*All Other Diseases or Defects ... ..	84
<hr/>	
Parents Present... ..	208
Already under Medical Attention... ..	15
Clothing—Not Satisfactory ... ..	2
Footgear—Not Satisfactory ... ..	—
<hr/>	





